ASA-912

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

T. AIZONO et al

Serial No. 09/645,450 Group Art Unit: 2155

Filed: August 25, 2000 Examiner: P. Winder

For: TRANSPORT SYSTEM

PRELIMINARY AMENDMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313

December 3, 2004

Sir:

Before further examination on the merits, please amend the above-identified application as follows.

IN THE CLAIMS

Claims 1, 4-5, 7, 9-10, 21-25 are pending.

Please amend Claim 4 and add new Claim 26 as follows.

1. (Previously presented) A transport system having a plurality of roadside stations disposed along a road and interconnected through a network along the road, said roadside stations each including a radio communication unit for communicating with a mobile body, wherein:

each of said roadside station comprises:

means for directly receiving from the mobile body location information indicative of a location at which the mobile body exists by using the radio communication unit;

means for determining to execute a processing for the mobile body based on said location information when a distance between the mobile body and the roadside station reaches a predetermined value; and

means for executing said processing for the mobile body based on the determination by said means for determining.

2-3. (Canceled)

4. (Currently amended) The transport system according to claim ~~x1 or x3~~ 21, further comprising:

means for calculating a second location information indicative of a location at which said mobile body will exist at the time said processing should be completed, said second location being calculated by a processing unit in other roadside stations.

5. (Previously presented) The transport system according to claim 4, wherein:

said means for directly receiving further receives time information indicative of a time at which said processing should be completed.

6. (Canceled)

7. (Previously presented) An information processing method in a transport system having a plurality of roadside stations disposed along a road and interconnected through a network along the road, said roadside stations each including a radio communication unit for communicating with a mobile body, the method comprising the steps of:

said mobile body transmitting request information to at

least one of said plurality of roadside stations, said request information including contents information indicative of contents of a request for a processing for the mobile body, and location information indicative of a location at which said mobile body exists;

a roadside station, which has received said request information, transmitting said request information to other roadside stations through said network; and

each of said plurality of roadside stations, which have received said request information, determining to execute a processing for the mobile body based on said location information when a distance between the mobile body and the processing unit along the road falls into a predetermined value, and broadcasting a result of said execution of said processing to said mobile body or to other roadside stations interconnected through the network.

8. (Canceled)

9. (Previously presented) The information processing method according to claim 7, wherein:

said mobile body periodically transmits confirmation

information to at least one of said roadside stations capable of performing the radio communication until said mobile body receives said result of said execution of said processing after said request information is transmitted; and

said mobile body determines that said mobile body is not provided with the result of said execution when said mobile body continues the transmission of the confirmation information for a predetermined period of time without receiving any response.

10. (Previously presented) The information processing method according to claim 7, further comprising:

maintaining a result of said execution at the earliest time by one of said roadside stations when said mobile body receives results of said execution from said plurality of roadside stations, and discarding results of the rest of said execution.

11-20. (Canceled)

21. (Previously presented) The transport system according to claim 1, wherein said mobile body transmits a

plurality of requests to said roadside stations, and said transport system further comprises:

means for directly receiving a vehicle number indicative of said mobile body to be sent with a response to said request; and

each said roadside station further comprising:

means for broadcasting a result of said execution of said processing for the mobile body to said mobile body or to other roadside stations interconnected through the network; and

means for determining to execute a processing for the mobile body of said vehicle number, based on said location information when a distance between the mobile body and the processing unit along the road reaches a predetermined value.

22. (Previously presented) The transport system according to claim 21, further comprising:

means for starting a timer which measures a period of time for holding said result of said execution of said processing for the mobile body.

23. (Previously presented) A transport system having a plurality of roadside stations disposed along roads with relay devices and interconnected through a network along the roads

with the relay devices, said roadside stations each including a radio communication unit for communicating with a mobile body, wherein:

each of said roadside stations comprises:

means for directly receiving from the mobile body location information indicative of a location at which the mobile body exists, and route information indicative of a route along which the mobile body is running by using the radio communication unit;

means for broadcasting the location information and the route information to other processing units interconnected through the network;

means for determining to execute a processing for the mobile body based on said location information when a distance between the mobile body and the processing unit along the roads reaches a predetermined value; and

means for executing said processing for the mobile body based on the determination by said means for determining.

24. (Previously presented) The transport system according to claim 23, wherein said mobile body transmits a plurality of requests to said roadside stations, and said transport system further comprises:

means for directly receiving a vehicle number indicative of said mobile body to be sent with a response to said request; and

each of said roadside stations further comprises:

means for broadcasting a result of said execution of said processing for the mobile body to said mobile body or to other roadside stations interconnected through the network; and

means for determining to execute a processing for the mobile body of said vehicle number, based on said location information when a distance between the mobile body and the processing unit along the road reaches a predetermined value.

25. (Previously presented) The transport system according to claim 24, further comprising:

means for starting a timer which measures a period of time for holding said result of said execution of said processing for the mobile body.

26. (New) The transport system according to claim 24, further comprising:

means for calculating a second location information indicative of a location at which said mobile body will exist at the time said processing should be completed, said second

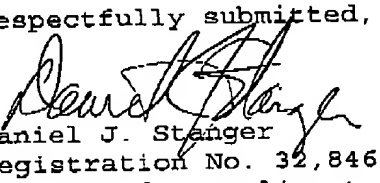
location being calculated by a processing unit in other roadside stations.

REMARKS

The Applicants have amended Claim 4 and added new Claim 26 in light of an editing error that resulted in Claim 4 being informal. The Applicants intended to make Claim 4 dependent from Claim 21, and to add a new Claim 26 reciting similar subject matter as that of Claim 4, but dependent from Claim 24. By the above amendments, the Applicants' intention is met.

Accordingly, Claims 1, 4-5, 7, 9-10, and 21-25 are now pending.

Respectfully submitted,



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FACSIMILE COVER LETTER

Facsimile Number: (703) 872-9306

To: Examiner P. Winder
Group Art Unit 2155, USPTO

From: Mr. Daniel J. Stanger
MATTINGLY, STANGER & MALUR, P.C.

Re: USSN 09/645,450
Attorney Docket No.: ASA-912

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FORM PTO-1083

PATENT
Case Docket No. ASA-912

In RE application of T. AIZONO et al
Serial No.: 09/645,450

Group Art Unit: 2155

Filed: August 25, 2000

Examiner: P. WINDER

For: TRANSPORT SYSTEM

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Transmitted herewith is an Amendment in the above-identfied application.

☐ Small entity status of this application under 37 CFR 1.9 and 1.27 has been established by a verified statement previously submitted.

☐ A verified statement to establish small entity status under 37 CFR 1.9 and 1.27 is enclosed.

☐ No additional fee is required.

The fee has been calculated as shown below:

	(COL. 1) Claims Remaining After Amendment		(COL. 2) Highest No. Previously Paid For		(COL. 3) Present Extra
Total	* 12	Minus	** 20	=	0
Indep.	* 3	Minus	*** 3	=	0
☐ First Presentation of Multiple Dependent Claims					

SMALL ENTITY Rate	Additional Fee	OR	OTHER THAN A SMALL ENTITY Rate	Additional Fee
x 9	$		x 18	$ 0
x 42	$		x 84	$ 0
+ 140	$		+ 280	$ 0
Total	$	OR	Total	$ 0

* If the entry in Col. 1 is less than the entry in Col. 2, write '0' in Col. 3.
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☒ Any filing fees under 37 CFR 1.16 for the presentation of extra claims.

☒ Any patent application processing fees under 37 CFR 1.17.

☒ Any Extension of Time fees that are necessary, which are hereby requested if necessary.

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